

What is claimed:

1. A method of operating an atmospheric pressure plasma chamber comprising the
5 steps of:

coupling an r.f. power supply through a coaxial transmission line to a suitably
designed tuning network;

- coupling a gas manifold to the plasma chamber; and then increasing the r.f.
power to produce a plasma in an oxygen mixture gas; exposing thick-film polymeric
10 resistors to this plasma and thus trimming them to a desired value.

2. A method of operating an atmospheric pressure plasma chamber comprising the
steps of:

- coupling an r.f. power supply through a coaxial transmission line to a suitably
15 designed tuning network;

coupling a gas manifold to the plasma chamber; and then increasing the r.f.
power to produce a plasma in an oxygen mixture gas; exposing parts to the plasma
thereby sterilizing said parts.

- 20 3. A method of operating an atmospheric pressure plasma chamber comprising the
steps of:

coupling an r.f. power supply through a coaxial transmission line to a suitably
designed tuning network;

- coupling a gas manifold to the plasma chamber; and then increasing the r.f.
25 power to produce a plasma in an oxygen mixture gas; exposing fiber optic cables to the
plasma, thereby etching off polyimide from the fiber optic cables.